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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,381	01/26/2004	Sung-hyu Han	1793.1181	4575
49455 STEIN MCEV	49455 7590 06/13/2007 STEIN, MCEWEN & BUI, LLP			INER
1400 EYE STREET, NW			HA, DAC V	
SUITE 300 WASHINGTON, DC 20005		ART UNIT	PAPER NUMBER	
			2611	
			MAIL DATE	DELIVERY MODE
			06/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/763,381	HAN ET AL.
Office Action Summary	Examiner	Art Unit
	Dac V. Ha	2611
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on <u>26 Ja</u> This action is FINAL. 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
 9) The specification is objected to by the Examine 10) The drawing(s) filed on 26 January 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex 	a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) □ All b) □ Some * c) ☒ None of: 1. ☒ Certified copies of the priority documents 2. □ Certified copies of the priority documents 3. □ Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicationity documents have been received in Price (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa	ite

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art in view of Halter (US 6,434,203).

Regarding claim 1, the admitted prior art of the instant application discloses "calculating a value of each entry of a decoding table" and "detecting a maximum among values of all entries of the decoding table and calculating a log-likelihood ratio (LLR)using the detected maximum" in Fig. 2; pages 3-4. The admitted prior art differs from the claimed invention in that it doesn't teach "calculating partial sums for a unit of each predetermined number of bits of a codeword received from a channel" and that calculating value of entry of decoding table "by referring to the partial sums". Halter, in the same field of endeavor, discloses such claimed subject matter in Fig. 5, element 218; col. 5, line 26 to col. 6, line 41. Therefore, it would have been obvious to one skilled in the art at the time of the invention to incorporate the use of partial sums taught by Halter into the admitted prior art to reduce the circuit size (col. 8, lines 25-31).

Regarding claim 7, see claim 1 above.

Regarding claim 11, see claim 1 above. Further, the claimed subject matter "a read/write ... optical disc device" would have been application specific, thus obvious to

Application/Control Number: 10/763,381

Art Unit: 2611

one skilled in the art. Moreover, Halter discloses "a reference entry unit which stores a predetermined number of reference entries" in Fig. 5, element 170; col. 9, lines 5-25.

Regarding claims 16, 19, see claim 11 above.

Regarding claim 20, see claim 1 above. Further, the claimed subject matter "wherein the entry value ... predetermined threshold" would have been easily realized by one skilled in the art as implementation specific.

Regarding claims 2-6, 8-10, 12-15, 17-18, these claimed subject matter would have been easily realized by one skilled in the art based on the aforementioned combination.

Priority

3. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Korea on 01/27/03. It is noted, however, that applicant has not filed a certified copy of the Korean application as required by 35 U.S.C. 119(b).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kang (US 6,662,331) discloses Space-Efficient Turbo Decoder.

Hepler et al. (US 6,961,921) discloses Pipeline Architechture For Maximum A Posteriori (MAP) Decoder.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dac V. Ha Primary Examiner Art Unit 2611